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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/672,420	09/26/2003	Khiem K. Nguyen	AMAT/8349/MASK/ETEC/AR	AT/8349/MASK/ETEC/ARNOL 8442	
44257 PATTERSON	7590 05/16/2007 & SHERIDAN, LLP	7	EXAMINER		
3040 POST OAK BOULEVARD, SUITE 150	ITE 1500	KACKA	R, RAM N		
HOUSTON, TX 77056			ART UNIT	PAPER NUMBER	
			1763		
		·			
			MAIL DATE	DELIVERY MODE	
			05/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Арі	plication No.	Applicant(s)				
l l	/672,420	NGUYEN ET AL.				
Office Action Summary Exa	aminer	Art Unit				
	m N. Kackar	1763				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 04 April 20	<u> 2007</u> .					
2a) This action is FINAL . 2b) ⊠ This action	on is non-final.					
3) Since this application is in condition for allowance e						
closed in accordance with the practice under Ex pai	rte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims	•					
4)⊠ Claim(s) <u>1,3-9,11-20,22 and 28-31</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	·					
6)⊠ Claim(s) <u>1, 3-9, 11-20, 22 and 28-31</u> is/are rejected	d.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or elec	ction requirement.					
Application Papers	•					
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted	d or b)⊡ objected to by the E	xaminer.				
Applicant may not request that any objection to the drawing	ng(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examin	ner. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119	•					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (I					
3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Date 5) Notice of Informal Pa	e tent Application				
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

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Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/4/2007 has been entered.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 16-20, 22, 28 and 31 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The limitation "emit a direct light" in claim16 is a new matter. The specification does not impose any restriction of this sort. In fact drawing in Fig 2 shows light being reflected from mirror 286.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1, 3-9, 11-20, 22 and 28-31 are rejected under 35 U.S.C. 102(b) as being anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Otsubo et al (JP 2001160576).

Otsubo et al disclose a process chamber (Fig 6) comprising a substrate support member (41), an interferometer end point detection system (48a, 48b, 48c, Abstract and paragraphs 43, and 60-66) mounted below substrate and configured to detect a peripheral region of the substrate (Paragraph 60-machine translation). Further the interferometer end point system comprises a light source (15) and a light detector (22) and a computer for calculating a spectra (23) to determine the endpoint.

Regarding the limitation of test pattern and size of the substrate it is noted that reference to contents of an apparatus to contents thereof during an intended operation are of no significance in determining patentability of the apparatus claim. Ex parte Thibault, 164 USPQ 666, 667 (Bd. App. 1969).

Further, regarding claims 7, 18 and 29-31 the region to be detected is an intended use limitation.

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Response to Arguments

Applicant's arguments filed 11/20/2006 have been fully considered but they not persuasive.

Contrary to applicant's assertion the interferometer end point detection system does point to the peripheral part of the substrate.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ram N. Kackar whose telephone number is 571 272 1436. The examiner can normally be reached on M-F 8:00 A.M to 5:P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571 272 1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ram Kackar

Primary Examiner AU 1763